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Current and Average Prices for Use in Farm Planning
Ohio, 1976

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Current and Average Prices for Use in Farm Planning
Ohio, 1976

Introduction

Every farm manager makes many decisions that require future price information. Selecting the most favorable plan from the many possible alternatives for the use of available resources is an important managerial function. The primary purpose of planning or budgeting is to select the best course of action to achieve maximum future returns. Although we have an imperfect insight into the future, some guides are available that can be used to help select our best alternative.

Planning Horizons

Two horizons can be identified for developing farm plans. The organizational or long run horizon is far enough in the future that machinery and buildings can be completely depreciated. These must be replaced to continue in production. Acquisition of long lived productive inputs is usually based on the assumption that they can be used efficiently until fully consumed and the investment fully recovered through depreciation. This planning horizon may frequently encompass 15 to 30 or more years.

A second shorter horizon is available for the current or operational decisions. This may entail one production cycle or in the case of crop production, one season.

The Tool Box

Past prices provide one of the useful tools in predicting future price relationships. Over periods of time many agricultural prices tend to have a similar relationship one to another. Some of these re-

relationships have been developed as norms and standards, for example the corn-hog price ratio.

Historical price movements (trends, cycles, and seasonal changes) provide the farm manager with another useful tool as the price of one commodity tends to change other substitutes or uses of that commodity frequently lag or tend to follow. Some price trends reflect changes that encompass several production cycles and may display the effects of changes occurring in the total economy. Cyclical movements such as the cattle cycle are related to the time required to expand or contract an enterprise. A high corn price in one year may result in an expanded next year's acreage and production and a lower relative price.

Seasonal price changes are directly related to the production of a commodity during the year. Corn is usually at its lowest price during the harvest period and tends to increase as the season progresses, until the next crop is ready for harvest.

Guides

Knowledge of past prices and past price relationships can be useful to a manager in testing and evaluating his available alternatives. However, the agriculture sector is not a separate and distinct isolated segment of our national economy. Every manager and farm planner should be aware of fluctuations that may occur and anticipate the effects of changes in the general economy. He must relate his business activity to developments occurring in the community, nation and world.

The United States is now a part of a world market economy. World political activity impacts on large and important trade agreements and sales commitments. These dealings have a most important impact on domestic agricultural prices. Our regulatory programs also reflect considerable political involvement.

The planning period under consideration is important when selecting the best commodity and input prices to use for the planning of a particular farm. Ideally, the prices that will be realized as each part of the plan becomes operational should be used. This will yield the most accurate understanding of income generating performance for each of the activities and the alternative possibilities considered. Current prices with cyclical adjustments may be a good estimate of next year's prices. For a longer planning period, an average of a period of years including both the high and low of one or several cycles may provide the best price relationship estimate. In any event the set of prices selected should be sufficiently recent to reflect comparable technology and yet encompass a long enough period of years to include one cycle.

Generally, commodities produced on farms and commodities such as processed livestock feeds tend to rise and fall with the demand for farm products. However, items used in farm production such as fuel, machinery and utilities tend to display more log. Typically, these prices rise more rapidly and fall more slowly than do the prices of commodities produced for farm sales.

Summing Up

Farm planning is at best a continuing process. The future is a culmination of change - change in demand, in technology, in production performance, in politics, in contractual terms available, and in the local and national economy. A farm manager must constantly attempt to estimate the future prices of items he will produce for sale. No one set of prices is adequate. An understanding of tools and guides can be used to help select the most desirable plan and accurately estimate anticipated future income. Adjustments often must be made when selecting any set of prices for a particular farm program. Advantages of location,

personal contacts and operating conditions make each farm situation an individual consideration. This price information reflects some trend and current price information, as found to be representative in Central Ohio.

Grain & Hay Prices Received by Ohio Farmers, Selected Years

Item	20-Year Avg.	5-Year Avg.	1971	1972	1973	1974	1975
Grain \$/bu. ^{1/}							
Corn	1.43	2.01	1.28	1.17	1.94	3.00	2.67
Wheat	1.97	2.89	1.46	1.63	3.47	4.54	3.33
Oats	.82	1.14	.72	.77	1.11	1.60	1.52
Soybeans	3.10	4.88	2.97	3.31	6.44	6.46	5.24
Hay \$/ton ^{2/}							
Alfalfa	29.40	39.15	28.33	30.71	37.18	43.17	56.37
Mixed (clover-timothy)	25.94	35.99	24.87	26.71	35.13	40.37	52.87

Grain & Hay Prices Received by Ohio Farmers by Months, 1975

Month	\$ Per Bushel ^{1/}				\$ Per Ton ^{2/}	
	Corn	Wheat	Oats	Soybeans	Alfalfa	All Hay
Jan.	3.14	3.95	1.73	6.27	59.00	54.50
Feb.	2.87	3.79	1.70	5.66	57.00	53.00
Mar.	2.68	3.36	1.58	5.26	58.50	55.00
Apr.	2.66	3.34	1.60	5.59	59.50	55.50
May	2.59	2.88	1.57	5.05	60.00	56.00
June	2.64	2.71	1.54	4.95	55.00	51.50
July	2.70	3.18	1.46	5.39	48.00	46.00
Aug.	2.91	3.44	1.42	5.83	53.50	50.00
Sept.	2.76	3.63	1.41	5.35	55.00	51.50
Oct.	2.57	3.54	1.35	4.85	53.00	50.00
Nov.	2.21	3.11	1.36	4.37	57.50	54.50
Dec.	2.34	3.07	1.46	4.25	60.50	57.00
Jan. 76	2.44	3.27	1.50	4.48	60.50	57.00

^{1/} Grain prices delivered at elevator. Conditioning and hauling charges must be deducted to get net farm price.

^{2/} Average price for all cuttings, baled.

SOURCE: Agricultural Prices, USDA, SRS.

Average Monthly Price Received by Ohio Farmers for Selected Crops

(Dollars per Unit)

Year & Crop	Unit	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1975													
Alfalfa	Ton	59.00	57.00	58.50	59.50	60.00	55.00	48.00	53.50	55.00	53.00	57.50	60.50
All Hay	Ton	54.50	53.00	55.00	55.50	56.00	51.50	46.00	50.00	51.50	50.00	54.50	57.00
Soybeans	Bu.	6.27	5.66	5.26	5.59	5.05	4.95	5.39	5.83	5.35	4.85	4.37	4.25
Wheat	Bu.	3.95	3.79	3.36	3.34	2.88	2.71	3.18	3.44	3.63	3.54	3.11	3.07
Corn	Bu.	3.14	2.87	2.68	2.66	2.59	2.64	2.70	2.91	2.76	2.57	2.21	2.34
Oats	Bu.	1.73	1.70	1.58	1.60	1.57	1.54	1.46	1.42	1.41	1.35	1.36	1.46
1974													
Alfalfa	Ton	42.00	45.00	45.00	42.50	37.50	36.50	33.50	40.00	44.00	48.50	51.50	52.00
All Hay	Ton	39.50	42.00	42.00	40.50	36.00	35.00	32.00	37.50	41.00	44.50	47.00	47.50
Soybeans	Bu.	5.91	6.12	6.07	5.23	5.26	5.17	6.08	7.53	7.46	8.22	7.35	7.11
Wheat	Bu.	6.04	6.37	5.34	4.34	3.21	3.38	4.01	4.07	4.08	4.71	4.50	4.40
Corn	Bu.	2.68	2.89	2.77	2.45	2.54	2.67	2.99	3.53	3.35	3.49	3.33	3.32
Oats	Bu.	1.51	1.66	1.67	1.50	1.42	1.40	1.37	1.66	1.67	1.76	1.77	1.82
1973													
Alfalfa	Ton	35.00	37.50	37.00	37.00	39.00	37.50	33.00	35.00	35.00	37.00	40.00	43.00
All Hay	Ton	33.50	36.00	35.50	34.50	36.50	34.50	31.00	33.00	33.00	34.50	37.50	42.00
Soybeans	Bu.	3.90	5.35	5.85	6.19	8.25	9.90	6.45	9.40	5.60	5.58	5.18	5.66
Wheat	Bu.	2.59	2.22	2.20	2.29	2.32	2.58	2.74	4.63	5.03	4.53	4.94	5.56
Corn	Bu.	1.40	1.35	1.39	1.44	1.66	2.10	2.20	2.80	2.12	2.11	2.23	2.48
Oats	Bu.	1.02	1.02	.99	.97	1.01	1.03	.93	1.23	1.18	1.24	1.25	1.41
1972													
Alfalfa	Ton	30.50	33.00	31.50	30.50	30.50	28.50	31.00	28.00	29.00	30.00	31.00	35.00
All Hay	Ton	26.00	28.00	26.50	26.50	26.50	25.00	27.00	24.00	26.00	27.00	27.00	31.00
Soybeans	Bu.	2.92	3.03	3.24	3.38	3.38	3.35	3.34	3.39	3.30	3.13	3.40	3.85
Wheat	Bu.	1.47	1.39	1.41	1.48	1.48	1.32	1.29	1.48	1.73	1.94	2.09	2.52
Corn	Bu.	1.07	1.08	1.10	1.13	1.14	1.13	1.14	1.16	1.23	1.20	1.23	1.48
Oats	Bu.	.74	.74	.73	.71	.72	.71	.69	.72	.78	.80	.84	1.00
1971													
Alfalfa	Ton	28.00	28.00	29.50	28.50	28.50	28.50	29.50	27.50	27.50	27.00	28.00	29.50
All Hay	Ton	24.90	24.90	25.40	25.00	25.10	24.70	25.70	23.70	24.00	24.00	25.00	26.00
Soybeans	Bu.	2.89	2.94	2.94	2.84	2.90	3.03	3.20	3.13	2.98	3.02	2.78	2.97
Wheat	Bu.	1.63	1.63	1.57	1.54	1.42	1.50	1.36	1.25	1.24	1.31	1.38	1.45
Corn	Bu.	1.48	1.46	1.46	1.45	1.42	1.49	1.41	1.22	1.06	.96	.91	1.07
Oats	Bu.	.81	.82	.79	.76	.75	.77	.64	.62	.63	.64	.68	.72

Average Prices for Selected Commodities, Ohio

Commodity	Unit	1971	1972	1973	1974	1975
Barley	bu.	\$.94	\$.92	\$ 1.43	\$ 2.05	\$ 2.15
Rye	bu.	1.01	.98	1.61	2.50	2.48
Popcorn	cwt.	3.50	3.25	3.90	6.60	-.--
All Hay	ton	25.50	30.00	37.00	42.50	52.87
Tobacco, Burley Type 31	lb.	.81	.78	.93	1.10	1.06
Potatoes, All	cwt.	2.95	3.32	6.45	4.93	5.27
Maple Syrup	gal.	6.80	7.80	8.50	9.45	-.--
Apples	lb.	.068	.088	.112	.103	.103
Peaches	lb.	.095	.20	.170	.170	.194
Tart Cherries	ton	230.00	194.00	471.00	494.00	449.00
Grapes	ton	170.00	182.00	219.00	222.00	206.00
Red Clover Seed	cwt.	23.90	37.50	59.50	53.00	51.25
Timothy Seed	cwt.	6.60	14.50	24.50	14.00	11.25
Sweet Clover Seed, yellow	bu.	4.62	4.80	-.--	-.--	16.75
white	bu.	-.--	-.--	-.--	-.--	24.95

SOURCE: Statistical Reporting Service - USDA.

Livestock and Livestock Prices Received by Ohio Farmers

Item	Unit	1971	1972	1973	1974	1975
Market Hogs (190-220#)	cwt.	\$ 17.80	\$ 25.30	\$ 39.00	\$ 34.93	\$ 48.15
Slaughter Lambs	cwt.	26.20	29.00	35.70	39.30	42.80
Ewes	cwt.	7.20	8.50	13.30	12.05	11.77
Calves	cwt.	40.00	48.00	63.20	53.73	38.53
Beef Steers & Heifers	cwt.	30.10	34.40	44.50	40.30	39.83
Cows	cwt.	20.60	23.80	33.20	25.80	20.61
Milk Cows	head	348.00	368.00	517.00	546.00	430.00
Fluid Milk Blend	cwt.	6.28	4.47	7.42	8.80	8.98
Manufacturing Grade Milk	cwt.	4.73	4.97	5.59	6.86	7.25
Wool	lb.	.24	.29	.55	.37	.25
Eggs	doz.	.28	.26	.50	.47	.47
Broilers	lb.	.14	.13	.23	.21	.27
Turkeys	lb.	.24	.23	.39	.28	.34

SOURCE: Agriculture Prices, USDA, SRS.

Feeder Cattle Prices Per 100 Pounds, Kansas City
for Selected Years

Choice Feeder Steers Calves						
Month	5-Year Average	(300-550#) ^{1/}			(300-500#) ^{1/}	
		1971	1972	1973	1974	1975
January	\$42.87	\$36.18	\$43.17	\$52.94	\$56.20	\$25.88
February	44.79	38.48	45.04	57.19	56.95	26.29
March	45.57	37.17	45.33	63.40	55.21	26.76
April	46.60	38.60	46.07	62.22	54.15	31.95
May	46.59	39.19	48.74	64.06	47.18	33.78
June	46.02	39.15	49.79	63.48	42.80	34.90
July	45.55	39.10	49.47	65.89	40.85	32.43
August	45.99	39.36	50.26	73.27	37.38	29.70
September	44.96	39.33	50.83	63.61	36.60	34.44
October	43.43	39.95	51.73	60.73	29.73	35.00
November	42.69	41.70	49.88	57.68	29.71	34.46
December	41.66	41.81	51.13	52.49	26.44	36.43
Average	44.73	39.17	48.45	61.41	42.77	31.84

Choice Feeder Steers (550-750#) ^{1/}						
Month	5-Year Average	1971	1972	1973	1974	1975
January	\$37.49	\$32.20	\$38.13	\$47.65	\$48.11	\$21.37
February	38.88	34.24	39.23	50.96	47.71	22.27
March	39.01	34.26	38.99	54.44	43.56	23.81
April	37.92	34.46	38.79	52.02	38.32	25.99
May	39.26	34.53	40.73	54.46	37.81	28.76
June	38.86	34.52	41.97	54.54	33.22	30.05
July	39.05	34.36	42.11	56.37	33.95	28.44
August	39.93	35.18	42.27	62.50	31.27	28.43
September	38.06	34.97	43.63	54.78	27.38	29.56
October	38.36	35.64	44.37	52.18	27.04	32.59
November	37.36	36.88	43.30	51.14	23.78	31.70
December	36.71	37.20	45.85	47.39	21.95	31.15
Average	38.41	34.87	41.61	53.20	34.51	27.84

^{1/} Price differential between choice and good in a given class averaged about \$2.50. Heifers average \$2.50-3.00/cwt. less than steers. However, these relationships may widen or narrow.

SOURCE: Market News Livestock Division; USDA, SRS.

Ohio Feeder Calf Sale Prices
Fall 1975

		Price	
	Weight	Cwt.	Head
<u>Steers</u>			
Prime	518	\$ 42.20	\$218.60
Choice	454	34.36	155.96
Good	492	26.17	128.79
<u>Heifers</u>			
Choice	420	24.40	102.44
Good	434	19.27	83.58

Comparative Feeder Calf Prices, Ohio
Selected Years (per cwt.)

Year	Grade			
	Choice		Good	
	Steers	Heifers	Steers	Heifers
1975	\$34.36	\$24.40	\$26.17	\$19.27
1973	58.16	48.97	51.65	45.56
1971	48.70	37.09	46.42	37.12
1969	34.11	29.24	32.57	27.01

Feeder Calf Price Differential
1969-1975

Year	Per Cwt.	
	Steers	Steer-Heifers
	Choice-Good	Good
1975	\$ 8.19	\$ 6.90
1973	3.37	9.51
1971	2.11	6.62
1969	1.52	5.08

SOURCE: 1975 Fall Ohio Approved Feeder Cattle Sales

Feeder Pig Auction Prices
by Months, 1975*

Month	#/Head	\$/Cwt.	\$/Head
January	58	55.31	31.88
February	59	65.19	38.23
March	57	74.22	42.10
April	51	88.28	44.98
May	52	89.56	46.65
June	53	94.62	50.17
July	49	94.63	45.91
August	51	103.61	52.41
September	51	129.47	65.58
October	50	113.33	56.86
November	54	95.15	50.93
December	54	90.60	49.17
1975 Average	53	91.30	48.30
1974 Average	49	48.50	25.41

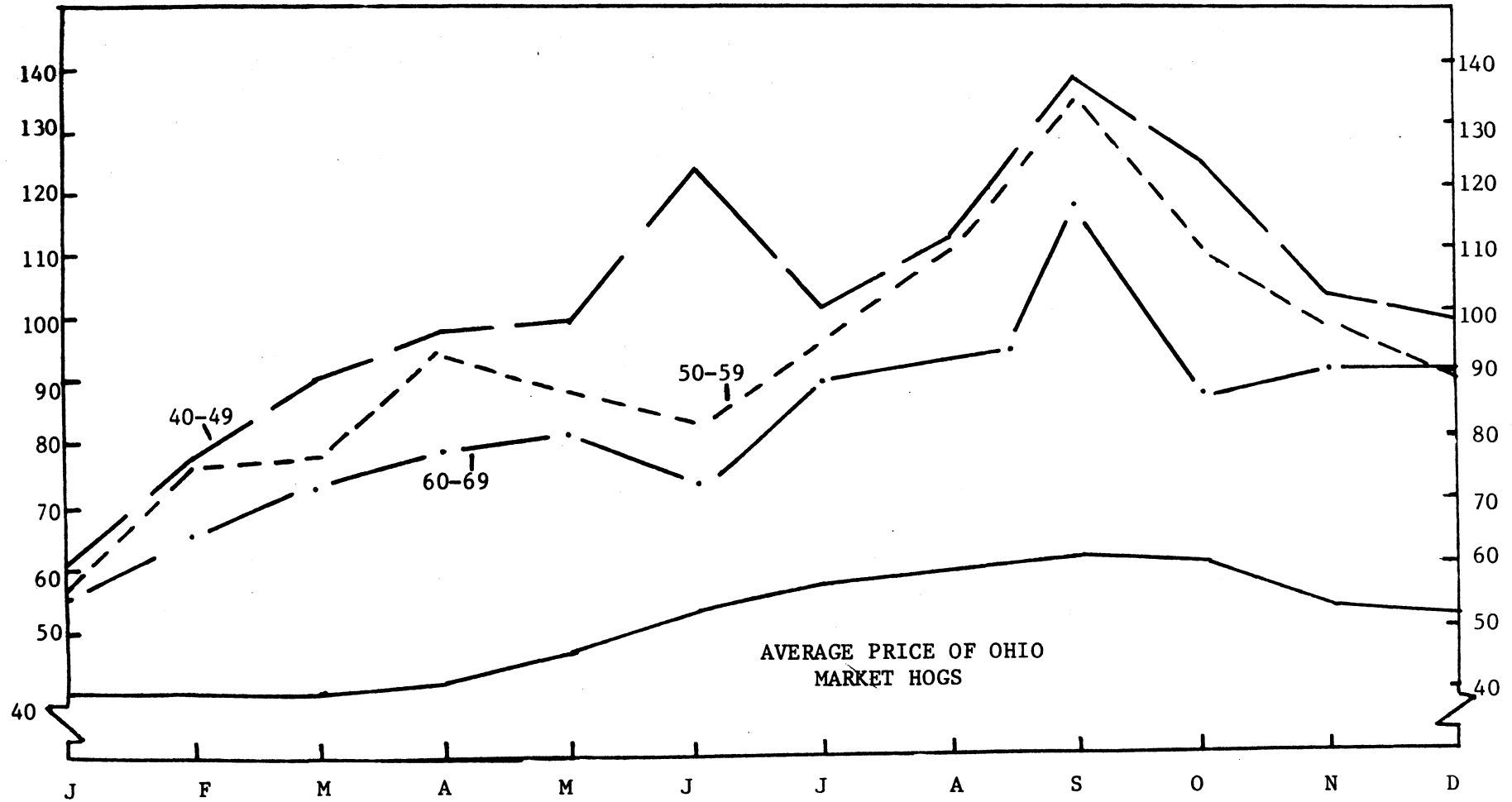
Feeder Pig Auction Prices
1971-1975*

Year	#/Head	\$/Cwt.	\$/Head
1971	56	29.11	16.21
1972	54	52.67	28.52
1973	52	68.81	35.61
1974	49	48.50	25.41
1975	53	91.30	48.30

SOURCE: Herbert H. Hadley, Summary and Analysis 1975 Ohio Graded Feeder Pig Auctions, Cooperative Extension Service MM-364, January 1976.

Chart I

Average Monthly Prices Paid for Graded Feeder Pigs
and Market Hogs, Ohio, 1975



Retail Prices of Commercial Feeds
Ohio, 1973 & 1975 1/

Feed	Price	
	1973 cwt.	1975 cwt.
Beef, Pro Blend 50	\$ 9.65	\$ 8.39
Dairy Blend 50	9.58	8.32
32% Milk Maker	10.23	7.76
44% Milk Maker	13.94	9.06
Calf Pellets	9.94	8.26
Calf Maker 50#	28.69	28.55
Super Laying Mash	7.59	6.67
Pig Supplement	12.09	8.51
Sow & Pig Supplement	11.70	8.61
40% Pork Maker	12.82	8.80
Lamb Finisher Pellets	4.57	5.66
Sheep Blend Pellets	10.50	8.16
Scratch Coarse 50#	-.--	8.34
Free Choice Minerals	4.18	6.88
	<u>ton</u>	<u>ton</u>
Cottonseed Meal 41%	\$196.72	\$153.17
Soybean Meal 44%	252.80	134.38

1/ Ohio Farm Bureau. Average of monthly retail prices. Bulk prices generally \$5.00/ton less than bag. Quantity discounts are applicable also.

Retail Fertilizer Prices, Ohio

Analysis	Price/Ton			
	1974		1975	
	Spring	Fall	Spring	Fall
<u>Mixed Fertilizers 1/</u>				
18-46-0	\$181.00	\$228.00	\$263.00	\$216.00
5-20-20	125.00	151.00	166.00	140.00
8-32-16	155.00	184.00	211.00	182.00
6-24-24	139.00	164.00	186.00	158.00
12-12-12	123.00	147.00	160.00	137.00
<u>Nitrogen</u>				
Anhydrous Ammonia	183.00	229.00	265.00	219.00
Urea 45%	183.00	232.00	244.00	203.00
28% N. Solution	115.00	137.00	159.00	121.00
<u>Ingredients</u>				
Super Phosphate (20%)	90.40	104.00	118.00	103.00
Triple Superphosphate (46%)	150.00	188.00	214.00	179.00
Muriate of Potash (60%)	81.30	91.00	102.00	94.30
<u>Agricultural Limestone</u>				
Bulk at Plant	3.50	4.00	4.00	4.00
Spread (15 mile radius)	7.99	8.43	9.03	8.88

SOURCE: Agricultural Prices, USDA, SRS; and local dealers

1/ FOB dealer warehouse - bulk
 bagged - add \$6.00/ton
 complete minor nutrients - add \$3.00/ton.

Farm Seeds, Ohio, 1970-1975

Seeds	Pounds/ Bushel	Unit	1970*	1972*	1973*	1974**	1975*
(Price per 100 Pounds)							
Alfalfa (certified)	60	cwt.	\$ 64.00	\$ 64.00	\$ 80.00	\$157.00	\$126.00
Alfalfa (uncertified)	60	cwt.	55.00	55.00	73.00	148.00	103.00
Red Clover	60	cwt.	54.50	49.00	65.00	108.00	103.00
Alsike Clover	60	cwt.	33.50	33.50	36.00	56.00	66.00
Ladino Clover	60	cwt.	122.50	125.00	130.00	195.00	250.00
Sweet Clover	60	cwt.	21.50	23.00	23.00	26.00	35.00
Timothy	45	cwt.	18.50	24.00	36.00	48.00	47.00
Orchardgrass	14	cwt.	46.25	47.50	50.00	76.00	61.00
Ky. Bluegrass	15	cwt.	58.00	63.00	64.00	120.00	97.00
Ryegrass (common)	24	cwt.	26.00	27.50	34.00	-.--	31.70
Fescue (tall)	25	cwt.	34.25	30.50	42.50	45.00	34.50
(Price per Bushel)							
Seed Wheat	60	bu.	2.75	3.00	4.05	-.--	5.90
Seed Oats	32	bu.	1.70	1.95	2.55	3.40	3.53
Seed Barley	48	bu.	2.60	2.90	3.50	5.00	-.--
Seed Corn (hybrid)	56	bu.	14.20	21.00	22.00	29.00	34.50
Soybean Seed	60	bu.	3.90	5.20	8.70	9.50	10.30

SOURCE: Agricultural Prices, USDA, SRS.*
Farm Supply Stores.**

Utilities and Milk Hauling Expenses
Ohio, 1975

Item	Cost
<u>Utilities (Average/Month)</u>	
Dairy Farms	\$86.33
Corn-Hog Farms	72.17
Cash Crop-Grain Farms	51.25
Beef Farms	60.83
<u>Hauling Charge for Milk (per cwt.)</u>	
Stop Charge	\$ 1.25
Hauling Charge	.35

SOURCE: 1975 Ohio Farm Account Summaries

Labor, Fuel Consumption, Insurance, Taxes,
Interest Rates and Spray Materials, Ohio, 1975

Item	Cost per Unit			
<u>Labor</u>	<u>Wages</u>			
	<u>1971</u>	<u>1972</u>	<u>1973</u>	<u>1975</u>
Per Hour without Board	\$1.60	\$1.75	\$1.90	\$2.75

Fuel and Oil

(1974 Ohio Farm Record Analysis Report)

Average per Crop Acre

Beef Feeding Farms	\$8.47
Dairy Farms	9.59
Corn-Hog Farms	9.28
Cash Crop-Grain Farms	7.76
Beef Breeding Farms	.43

Average Fuel Consumption under Rated Loads
(Nebraska Tractor Tests)

Gallons per Hour

2-3 Plow Tractor (gasoline)	4.5
2-3 Plow Tractor (diesel)	3.1
3-4 Plow Tractor (gasoline)	5.6
3-4 Plow Tractor (diesel)	3.8
4-5 Plow Tractor (gasoline)	5.6
4-5 Plow Tractor (diesel)	3.8
5-6 Plow Tractor (gasoline)	8.3
5-6 Plow Tractor (diesel)	6.1
6-7 Plow Tractor (diesel)	7.6

Gasoline and OilPer Gallon

Gasoline, bulk	\$.41 + .11 tax
#2 Diesel Fuel	.39
Motor Oil	
Heavy Duty Detergent	
55 gal. drum	2.06
small quantity	2.54
Regular	2.15
Antifreeze	4.72
Grease	
35# Pail	\$13.90
Cartilage	.60
Storage Batteries, 12 Volt	
54 plate	34.80
66 plate	42.00

Insurance, Mutual Companies

The insuring company typically requires that at least 70% of the current value of buildings and 80% of the value of personal property be covered. Often an insurance package for the entire farm may have a more favorable rate than the individually insured items. The quoted rates are for coverages with \$50.00 deductible.

Fire and extended Coverage
(Annual Cost per \$1,000)

Farm Homes*	
12,000 minimum	\$4.16
20,000	3.40
30,000	3.53
*Includes 40% of the insured value for household contents and 20% for family living expenses.	
Barns, Machine Shed and stored grain, hay, straw, etc.	4.40
Grain Bins and Wood Silos	11.00
Grain Handling Equipment, Metal Silos	7.00
Livestock	6.00
Machinery & Equipment	8.00
For Vandalism and Malicious Mischief add \$.80 per \$1,000 if occupied, 6.40 per \$1,000 if unoccupied.	

Real Estate Tax

Market Value Real Estate*	Millage Rates	Tax Payment per \$1,000
Typical Rates	\$/1,000	of Market Value
Rural Hill Counties	35	\$11.00-14.00
Rural Flat Counties	40	12.00-16.00
Urban Counties	50	15.00-19.00

*Includes land, buildings and improvements

Example:	Market Value	\$6,000
		x .35
	Assessed Value	2,100
	Mill Rate	.40
	Annual Tax	\$84.00

Current Agricultural Use Value (CAUV)

Current Agricultural Use Value taxation can be elected for any gratified farm property. This tax applies to the land only.

CAUV Tax Charge per Acre (Land only)*

	High	Low	Typical
Cropland	\$15.00	\$ 4.00	\$ 7.00
Pasture	3.00	.50	1.25
Woodland	1.60	.30	.50

* Value of buildings and improvement must be added in accord with market valuation. This is computed as the market value x 35% x the millage rate for the tax district.

Interest RatesPercent

Long Term Real Estate Loans	8.5 - 9.5%
Intermediate and Short Term Credit	8.5 - 10.5%

Herbicides and Insecticides

Price per Unit

Atrazine 80% WP	\$ 2.95/lb	
Lorox WP 50	14.80/4 lb.	18.50/5 lb.
2-4D 4 lb. Amine	9.78/gal.	
2-4D 4 lb. Low Volatile Ester	17.20/gal.	
CIPC	66.25/5 gal.	
Alanap 3, liquid	42.00/5 gal.	
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Treflan, liquid	7.55/qt.	
Treflan, granular	.43/lb.	
Banvel	36.30/gal.	
Lasso 2, gran.	28.50/50 lb.	15.00/gal.
Sutan	78.50/5 gal.	
Eptam 7E	106.00/5 gal.	21.70/gal.
<hr/>		
Sevin 80% sprayable	1.42/lb.	
Herbicide 273	90.00/5 gal.	
Amizine	10.95/gal.	
Amitrol T	16.18/gal.	
Aldrin 4#/gal. concentrate	9.22/gal.	
Malathion 5#/gal.	13.50/gal.	
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Parathion 4#/gal.	10.30/gal.	
Toxaphene 6#/gal.	5.80/gal.	
Guthion	6.98/2.5 lb.	
Fundal	20.93/2.5 lb.	
Hog Rub Insecticide	12.95/application	
Paraquat	37.95/gal.	
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Princep 80W	2.70/lb.	
Bladex 80W	2.85/lb.	
Bladex 15G (50 lbs.)	.60/lb.	
Dyfonate 20G (50 lbs.)	.76/lb.	
Furadan 10G (50 lbs.)	.59/lb.	
Imidan 50W	7.00/5 lb.	
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Diazinon 50W	12.00/4 lb.	
Diazinon AG	26.00/gal.	
Methoxychlor 50W (Marlate)	5.64/4 lb.	

Machinery and Equipment Prices

The price paid by farmers for machinery and equipment varies considerably. Many things enter into the determination of the price, such as the aggressiveness of the dealer, the utility and resale value of machines traded in, the total value of the machine being bargained for, the size of the deal (how many machines and how many dollars are involved), public relations, the possibility of future purchases by the farmer, the amount of servicing required, and bargaining ability. Dealers may accept a general pricing policy, such as their cost plus a mark-up of 5 to 18 percent, others discount the manufacturers suggested retail price.

Quality of workmanship and materials and the options selected influence the price of machinery and equipment. An item considered standard equipment by one company may be considered optional by another. Thus, the basic machine price may vary considerably from one company to another.

Factors other than price should be carefully considered before purchasing machinery. Among these factors are: 1) The reliability of the company and how well do they stand behind their products. 2) The service policy and practice of the individual dealer. 3) How readily available are parts and services. 4) Will it really do the job you want it to do.

Prices quoted on the following pages were computed from the prices quoted for the machines equipped as the farmers most often purchased them. The prices quoted by six machinery companies as their "most usual" selling price were averaged to obtain the prices quoted on the following pages. The general range of prices would be approximately the average price plus or minus 5 percent.

PTO-HP Range	Plow Size	Average Price
30-39	2-3	\$ 6,320
50-59	3-4	8,790
70-79	4-5	13,000
90-99	5-6	17,000
110-129	6-7	20,400
170-240	4 Wheel Drive	40,000

	Average Prices 1/			
	2 Row	4 Row	6 Row (narrow)	8 Row
Basic Unit	\$814	\$3,300	\$4,800	\$6,400
Dry Fertilizer Attachment	---	696	1,065	---
Liquid Fertilizer Attachment	---	998	1,370	---
Dry Herbicide Attachment	174	348	522	696
Herbicide & Insecticide Attachment	240	480	720	1,060
Power Take-Off Pack	---	161	161	161
Auger Attachment	---	40	60	---

Machine	Average Price 1/
Plow (either 3 point mounted or semi-mounted. W/all cylinders and tires needed for operation. 2,3 bottoms w/16" std. rolling colters all other 2/18").	
2-14	\$ 284
3-14	494
4-14	788
2-16	420
3-16	679
4-16	957
5-16	1,232
3-18	1,214
4-18	1,635
6-18	2,274
Bottoms	2 694
	3 1,340
	5 3,130
	7 4,550

1/ Average of suggested Columbus retail prices as quoted by leading manufacturers.

Disks-Harrows (w/tires and cylinders, 18' blades and regular bearings)	
9' light	\$1,580
12' light	1,960
15' light	2,510
10' heavy	1,760
13' heavy	2,610
16' heavy	3,780
19' heavy	4,800
Spring Tooth Harrows (with hitch)	
2 sections each	344
3 sections each	481
Spike Tooth Harrow (with evener)	
each section	107
Field Cultivators	
11' mounted	1,140
18' mounted	2,060
Fertilizer Spreaders	
10'	724
12'	880
Rotary Hoe (heavy sections)	
2 sections each	488
4 sections each	1,270
Cultivators (with sweeps, shields and cylinders, if needed)	
11' each	1,140
18' each	2,060
Corn Pickers	
1 row pull	3,316
2 row pull	4,463
3 row pull	8,564
2 row mounted	6,670
Picker Husker-Sheller	
2 row pull	8,377
3 row pull	10,335
Corn Heads for Self Propelled Combines	
2 row	2,240
3 row	4,500
4 row	6,700
6 row	7,800
8 row	10,000
Grain Drills (Fert. and grass seed hoppers, w/band seeding attach. w/tires, without hydraulic cylinder)	
13 x 7	2,280
17 x 7	2,800
24 x 7	4,640

Combines - Separator with Grain Table (Diesel)

10' S.P.	50 HP	\$20,200
13' S.P.	80-90 HP	27,300
14' S.P.	100-110 HP	32,900
16' S.P.	110-130 HP	34,800
Extras -	Air Conditioning	1,000
	Cab	950
	Hydro-Static Drive	1,500

Mowers

6' mounted	852
7' pull (w/tires & cylinders)	1,040
9'	1,250

Mower-Conditioner

9' PTO	3,970
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Windrowers

12' pull	\$1,039	10' S.P.	9,275
15' pull	2,300	12' S.P.	11,740
18' pull	2,703	14' S.P.	13,762
20' pull	3,038	16' S.P.	11,772

Hay Conditioner

7' pick-up	1,360
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Hay Side Delivery Rakes

9' mounted	1,110
9' pull (w/tires)	1,190

Balers (twine tie w/tires)

Size 14-18 PTO	4,347
Size 14-18 Engine Drive	5,494

Baler (wire)

4,837

Bale Thrower

680

Forage Harvesters

Basic Unit	4,409
BU-PTO	1,575
Pick-Up	372
Row crop-1	441
Row crop-2	704
Mower	572

Self Propelled - 2 Row

29,800

Forage Wagons (w/o gears, w/front, side & rear delivery, multispeed)

14' \$2,850	Roof \$110	Running Gears \$850	Freight \$250	4,060 total
16' \$3,150	Roof \$120	& Tires \$1,250	Freight \$275	4,795 total
(6 tires)				

Forage Blower (w/pipe for 60' silo)
54" sections \$1,325 - 2,030

Wagons (gear 6 ton capacity w/tires)
6 T Gear 487
26" depth 100-125 bu 411
Gravity grain bed 878
Power unloading bed 2,490

Elevators (PTO)
Chain 34' 1,170
Chain 40' 1,480
Auger 40' 1,240

Grain Augers

Equipped with electric motor and transport
carriage with tires

Length	Diameter	
	6"	8"
26'	\$1,205	---
31'	1,298	---
36'	1,449	---
44'	1,632	2,027
49'	1,695	2,091
54'	1,762	2,167

Deduct if PTO powered: 6" - \$44.00, 8" - 112.00.
Add \$46.00 for hopper attachment.

Portable Grinder-Mixer
82 Bushel 3,046
95 Bushel 3,480
120 Bushel 4,759

Auger Feed Wagons
85 Bushel 685
155 Bushel 937

Manure Spreaders
150 bu PTO 1,288
175 bu PTO 1,477
230 bu PTO 2,200

594 gal Flail 1,778
740 gal Flail 2,246
1061 gal Flail 3,550

Front End Tractor Loader
2600 lb. lift cap., up to 40 HP 1,185
3400 lb. lift cap., up to 94 HP 1,250
8 Ton - 60" Bucket Add 286

Rear End Tractor Blade 330

Post Hole Digger Drill

6"	\$ 640
9"	660
12"	690

Liquid Manure Pumps

6' depth of pit	2,904
8' depth of pit	2,965
12' depth of pit	3,132

Hay Stacker

3 ton	11,235
4-5 ton	16,880
6 ton	19,300

Hay Stack Mover

3 ton	2,850
4-5 ton	5,445
6 ton	5,937

Round Hay Baler

Large Bale (1500 lb)	5,883
Small Bale (50 lb)	3,073

Comparison of New and Used Machinery Prices

Example Only

Machine	New	2 Yr. Old	5 Yr. Old
30- 39 PTO HP Tractor (Gasoline)	\$ 5,750	\$ 4,500	\$ 3,500
50- 59 PTO HP Tractor (Gasoline)	8,300	7,000	5,200
70- 79 PTO HP Tractor (Gasoline)	11,500	10,000	9,100
90- 99 PTO HP Tractor (Gasoline)	15,100	12,900	12,000
110-129 PTO HP Tractor (Gasoline)	18,200	14,500	13,000
13' Combine 110-130 HP	35,000	18,000	13,000
100-110 HP	33,000	17,000	11,500
14-18 T/hr. String Tie Baler PTO	4,347	1,700	1,200
with Engine	5,494	2,100	1,500

FARM TRUCKS

1976 Prices

3/4 Ton Pickup - Wide Box
 700 x 16 8 ply tires
 heavy duty front & rear springs & helpers
 4 speed trans.
 rear bumper
 radio

Total Price (including freight & dealer handling) \$5,090.00

1 1/2 - 2 Ton Chassis & Cab
 750 x 16 8 ply tires dual rear
 HD springs Front and Rear helpers
 4 speed - standard
 spare wheel & carrier
 west coast mirrors

Price \$7,590.00

Buildings and Building and Fence Material Prices
Ohio, 1976

Item	Unit	Price
<u>Fence</u>		
Treated Wood Line Posts		
3 1/2" to 4" top	ea	\$ 1.95
5" to 6" top	ea	2.65
Treated Wood End Posts 9'		
6" top	ea	7.10
7" top	ea	10.95
8" top	ea	12.95
Steel Line Posts		
6'	ea	2.10
6 1/2'	ea	2.30
7'	ea	2.40
Wire		
32" woven 12-9 ga	20 rod	58.50
39" woven 12-9 ga	20 rod	67.00
48" woven 12-9 ga	20 rod	84.90
4 pt. barbed 12 ga	80 rod	32.75
Gates		
16' wood	ea	38.90
16' metal	ea	35.50
Brace Wire		
10# 187' 9 ga	roll	3.75
10# 200' 11 ga	roll	3.75
Electric		
Hot shot charger	ea	32.80
Battery 6 Volt	ea	7.95
Hi-line charger	ea	50.00
Wire	1/4 mi	7.75
Insulator porcelain	ea	.10
plastic	ea	.16
48" steel posts w/o insulators	ea	.89
<u>Drainage Tile</u>		
Clay 4" dia.	ft	.294
ditching	ft	.16
back fill	ft	.05
<u>Building</u>		
Concrete, ready mix (5 mi)	yd	26.00
Haul charge over 5 mi.	yd/mi	.25
Concrete block 8" x 8" x 16"	ea	.46
Lay block	ea	.50
Framing Lumber		
2" x 4" dressed	M	236.00
Hemlock or Fir	M	275.00
#2 or better large dimensions	M	311.00

Item	Unit	Price
Boards		
#2 yellow pine shiplap siding	M	\$309.00
#2 T & G roofers	M	226.00
#1 fir flooring	M	764.00
Rough sawed #2	M	306.00
Rough sawed utility	M	241.00
Roofing		
Asphalt shingles 235#	sq	20.20
Roll roofing 90#	roll	9.44
Galvanized steel	sq	24.25
Paint	gal	10.50
Nails	lb	.48
Pipe, copper 1/2"	ft	.39
copper 3/4"	ft	.45
Electric cable		
Indoor Use		
14/2 W/G	250 ft	14.95
12/2 W/G	250 ft	23.75
Outdoor Use		
14/2 W/G	250 ft	17.75
12/2 W/G	250 ft	27.15
Plywood		
4' x 8' exterior	1/2"	11.40
4' x 8' exterior	3/4"	14.10
Saw Timber (standing)		
#2 hard maple	M	30-120
white oak	M	30-155
ash	M	30-150

Creosote Poles - Delivered

length - ft.	top diameter	
	5"	6"
6.5	\$ 2.50	\$ 3.37
10	4.99	6.41
12	6.14	7.74
14	6.88	9.07
16	8.45	11.12
18	9.74	12.58
20	11.58	14.73
22	13.48	17.17
25	15.94	22.00
30	19.29	26.85

BuildingsPoultry

Environmental Control, totally enclosed, insulated floor, walls and dropped ceilings \$ 7.50-10.50/sq.ft.
(Ex. 40' x 175' = 7000 sq.ft., cost \$63,000)

Swine

Farrowing - Environmental control, insulated 13.00-15.00/sq.ft.
and moisture proofed with crates, service and feed
room and flushing drains 1,000-1,250/cow
Finishing - Cement floor, equipment and pens,
open one side 5.80- 6.50/sq.ft.

Dairy

complete, with free stalls & parlor 1,300-1,900/cow

Machinery

Pole construction, painted steel siding, enclosed, earth floor, sliding doors (material 60%, labor 40%), site preparation not included.

Size	Sq.Ft.	Total Cost	Cost/Sq.Ft.
36' x 48'	1728	\$ 5,616	\$ 3.25
36' x 63'	2268	7,260	3.20
36' x 81'	2916	9,200	3.15
48' x 90'	4320	13,200	3.05

Metal construction, painted steel siding, earth floor, sliding doors, site preparation not included.

Size	Sq.Ft.	Total Cost	Cost/Sq.Ft.
40' x 51'	2040	\$ 6,728	\$ 3.29
40' x 25' sections	1000	2,923	2.92

Double sliding doors 10' x 14' (28' opening) add \$600 per set.

Livestock

Pole construction, galvanized siding, open one side, earth floor, vent doors.

Size	Sq.Ft.	Total Cost	Cost/Sq.Ft.
32' x 64'	2048	\$ 6,100	\$ 3.00
36' x 81'	2916	8,340	2.90
36' x 96'	3456	9,660	2.80
40' x 110'	4400	12,100	2.75

Miscellaneous Livestock Equipment

<u>Item</u>	<u>Price</u>
<u>Cattle and Hog Head Gate</u> (for mounting in chute)	\$215.00
<u>Water Equipment</u>	
Hydrant Cups	
Stock Tanks	19.00
145 gallon	45.50
178 gallon	52.50
197 gallon	67.50
Automatic Fountain	
70 gallon	85.20
70 gallon with heater	119.80
80 gallon	87.55
80 gallon with heater	122.15
Pressure Drinking Water	
2 hole hog	58.05
2 hole hog with electric heater	99.75
cattle 50-70 head	113.40
cattle 50-70 head with electric heater	151.15
Hog Self Feeders	
Rectangular	
16 bushel 8 door	181.60
24 bushel 12 door	243.97
Round	
25 bushel 40 hogs	133.50
35 bushel 40 hogs	145.06
40 bushel 50 hogs	155.69
50 bushel 50 hogs	170.89
Hog Farrowing	
Farrowing crate with creep and water	225.00
Brooder Lamps	4.50

Grain Storage and DryingStorage Bins

Bushel	D x H	Bin Cost	Foundation & Floor	Total
10,000	28' x 22'	\$5,032	\$ 408	\$ 5,440
14,700	28' x 27'	6,266	750	7,016
18,000	35' x 27'	8,005	1,165	9,170
22,000	43' x 27'	9,823	1,980	11,803

Bin with Dryer

Equipped with perforated floors, stir equipment and dryers

Bushel	D x H	Bin Cost	Fan and Dry Mist	Founda- tion	Unload Equipm.	Total
3,000	16' x 16'	\$ 2,851	\$2,255	\$ 210	\$ 890	\$ 6,206
6,000	22' x 16'	4,582	2,287	408	976	8,253
11,000	27' x 16'	6,588	4,304	746	1,758	13,396
15,000	35' x 16'	8,821	4,368	1,165	1,835	16,189
20,000	41' x 13'	12,093	4,714	1,980	1,910	20,697
27,000	41' x 20'	14,328	4,714	1,980	1,910	22,932

Batch Dryer

Dries 96 bushel corn per hour, removing 10 percentage points of moisture, self load and unload, 7.5 hp motor, 3 million BTU burner.

<u>Holding capacity</u>	<u>24 hour capacity</u>	<u>Cost</u>
170 bushel	2,300 bushel	\$7,663

Continuous Flow Dryer

Capacity to remove 5% - from 20% to 15% per hour.

<u>Bushel/hr @ 20% to 15%</u>	<u>Price</u>
265	\$13,199
500	20,515
758	21,400

Comparative Drying Capacity

% wet corn	<u>Bushels/hour</u>	
	<u>Dry corn</u>	
	15%	12%
30	218	169
25	308	223
20	530	306
18	760	371

Wet Holding Tank

<u>Bushels</u>	<u>Diameter</u>	<u>Cost</u>
1263	12'	\$1,742
3537	16'	4,021

Portable Transport Auger

<u>Diameter</u>	<u>Length</u>		
	<u>44'</u>	<u>49'</u>	<u>54'</u>
6"	\$2,284	\$1,347	\$1,414
8"	1,611	1,675	1,751

Silos and Silage Feeding Equipment

Silos

Bunker (concrete floor creosote wood sides)

Tons	W	x	L	x	H	Cost
200	20'		100'		6'	\$4,500
300	30'		100'		6'	5,700
500	30'		80'		8'	6,500
1000	40'		100'		10'	9,750

Tower, concrete stone

Tons	D	x	H	Base Price	Founda- tion	Roof	Total
200	14'	x	50'	\$ 4,812	\$340	\$ 418	\$ 5,570
250	16'	x	50'	5,436	400	515	6,351
315	18'	x	50'	6,494	520	630	7,644
510	20'	x	60'	8,529	625	786	9,940
640	22'	x	60'	9,732	650	1,048	11,430
780	24'	x	60'	10,644	750	1,396	12,790

Tower, sealed for Silage & Haylage

Ton 40%	D	x	H	Base Price	Founda- tion	Un- loader	Total
225	20'	x	50'	\$19,000	\$1,875	\$7,850	\$28,725
300	20'	x	60'	22,200	1,875	7,850	31,925
550	25'	x	80'	26,500	4,500	8,500	39,500
750	25'	x	90'	42,400	4,500	8,500	55,400

Tower, sealed for Grain Storage

Bu.	D	x	H	Base Price	Founda- tion	Auger	Total
8000	20'	x	30'	\$10,700	\$1,875	\$2,000	\$14,575
18000	25'	x	42'	23,400	4,500	2,500	30,400

Silo Unloaders

	Silo Diameter	
	16'	20'
Unloader	\$1,835	\$2,051
Motor	515	609
Tripod	80	106
Winch	188	193
	\$2,618	\$2,959

Feed Bunk Equipment

Bunks	<u>Per lineal foot</u>
Wood trough post construction	\$ 9.50
Wood trough post construction roofed	25.00
Precast concrete	12.30

Auger Conveyor, 12 inch

<u>Length</u>	<u>HP motor</u>	<u>Total</u>	<u>Per Foot</u>
50'	3	\$1,493	\$29.86
80'	5	1,915	23.94
125'	7 1/2	2,945	23.56

Chain Conveyor (paddles)

80'	2	1,620	20.25
100'	3	1,883	18.83
160'	5	2,770	17.31

Self Propelled

80'	1	2,123	26.53
100'	1	2,403	24.03
160'	1 1/2	3,283	20.52

Silo to Bunk Movement

50'	2	1,329	26.58
60'	2	1,486	24.77
90'	2	2,260	25.11